Advancement Handbook for Aviation Electronics Technician (Intermediate Maintenance)

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PREFACE

The purpose of the Advancement Handbook is to help you focus your preparation for Navywide advancement-in-rating examinations. The bibliographies (BIBs) together with this handbook form a comprehensive examination study package. Since this handbook provides skill and knowledge components for each paygrade of the Aviation Electronics Technician (Intermediate) (ATI) rating, it helps you concentrate your study on those areas that may be tested. This feature will help you get the most out of your study time.

Each page in Parts 1 through 4 of this Advancement Handbook presents general skill areas, specific skill areas, the knowledge factors associated with each skill area, the pertinent references that address each skill, and the subject areas that may be covered on the examination. The skill statements describe the skills you are expected to perform for each paygrade. The skill statements are <u>cumulative</u>; that is, you are responsible for the skills for the paygrade you are competing for, your present paygrade, and all paygrades below.

Although this handbook is very comprehensive, it cannot cover all the tasks performed in the rating. As a result, the advancement examinations may contain questions more detailed than described in the "*Exam Expectations*" section of the skill areas.

Remember that advancement competition is keen, so your keys to advancement include not only comprehensive advancement examination study but also sustained superior performance.

<u>NOTE</u>

Many of the NAVEDTRA course numbers have been changed; however, the material is **NOT** new or revised. The course numbers have been changed only to facilitate the shift to central enrollment.

Prepared by
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Naval Education and Training Professional
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Part 1

Advancement Handbook for ATI3

Advancement Handbook for ATI3

General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain control indicator systems
Knowledge you should have to perform this skill:	• Theory of operation of control indicator systems • Operating parameters of control indicator systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 3 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 15, Chapters 1 through 4, (NAVEDTRA 14187)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of control indicator systems. Questions will be of a general nature or specific to a certain type of system. You also will be questioned on theory of operation, and operating parameters of basic synchros and servomechanisms.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain data display systems
Knowledge you should have to perform this skill:	• Theory of operation of data display systems • Operating parameters of data display systems • Location of modules/subassemblies of data display systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 5 (NAVEDTRA 14028)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of data display systems. Questions will be of a general nature or specific to a certain type of data display system. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of data display systems.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain data link systems
Knowledge you should have to perform this skill:	• Theory of operation of data link systems • Operating parameters of data link systems • Location of modules/subassemblies of data link systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 5 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 17, Chapter 5 (NAVEDTRA 14189)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of data link systems. Questions will be of a general nature. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of data link systems.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain digital data systems
Knowledge you should have to perform this skill:	• Theory of operation of digital data systems • Operating parameters of digital data systems • Location of modules/subassemblies of digital data systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 4 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 13, Chapters 1 through 3 (NAVEDTRA 14185) • Navy Electricity and Electronics Training Series, Module 22, Chapters 1 through 4 (NAVEDTRA 14194)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of digital data systems. Questions will be of a general nature. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of digital data systems.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain integrated electronics systems
Knowledge you should have to perform this skill:	- Theory of operation of integrated electronics systems - Operating parameters of integrated electronics systems - Location of modules/subassemblies of integrated electronics systems
References you should study to gain the knowledge you need to perform this skill:	- Applicable maintenance instruction manuals (MIMs) - Aviation Electronics Technician 3, Chapters 2 and 5 (NAVEDTRA 14028) - Navy Electricity and Electronics Training Series, Module 24, Chapters 1 through 3 (NAVEDTRA 14196)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of integrated electronics systems, which will include infrared, laser, and fiber optic systems. Questions will be of a general nature or specific to a certain type of system. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of integrated electronics systems.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain radar systems
Knowledge you should have to perform this skill:	• Theory of operation of radar systems • Operating parameters of radar systems • Location of modules/subassemblies of radar systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 5 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 11, Topics/Chapters 1 through 3 (NAVEDTRA 14183) • Navy Electricity and Electronics Training Series, Module 13, Chapter 2 (NAVEDTRA 14185) • Navy Electricity and Electronics Training Series, Module 18, Chapters 1 through 4 (NAVEDTRA 14190)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of radar systems. Questions will be of a general nature or specific to a certain type of radar system. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of radar systems.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain identification friend or foe (IFF) systems
Knowledge you should have to perform this skill:	• Theory of operation of IFF systems • Operating parameters of IFF systems • Location of modules/subassemblies of IFF systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 5 (NAVEDTRA 14028)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of IFF systems. Questions will be of a general nature. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of IFF systems.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain high frequency (HF), very high frequency (VHF), and ultra high frequency (UHF) radio systems
Knowledge you should have to perform this skill:	• Theory of operation of HF, VHF, and UHF radio systems • Operating parameters of HF, VHF, and UHF radio systems • Location of modules/subassemblies of HF, VHF, and UHF radio systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 5 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 12, Chapters 1 through 3 (NAVEDTRA 14184) • Navy Electricity and Electronics Training Series, Module 17, Chapters 1 through 3 (NAVEDTRA 14189)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of HF, VHF, and UHF radio systems. Questions will be of a general nature or specific to a certain type of radio communication. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of HF, VHF, and UHF radio systems.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain navigational systems
Knowledge you should have to perform this skill:	• Theory of operation of navigational systems • Operating parameters of navigational systems • Location of modules/subassemblies of navigational systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapters 2 and 5 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 10, Chapters 1 through 4 (NAVEDTRA 14182)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of ADF, VHF omni-directional (VOR), TACAN, and Doppler navigational systems. Questions will be of a general nature or specific to a certain type of equipment. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of navigational systems.

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General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain undersea warfare (USW) systems
Knowledge you should have to perform this skill:	• Theory of operation of USW systems • Operating parameters of USW systems • Location of modules/subassemblies of USW systems
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 5 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 22, Chapter 2 (NAVEDTRA 14194) • Navy Electricity and Electronics Training Series, Module 23, Chapters 1 through 8 (NAVEDTRA 14195)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of magnetic anomaly detection (MAD), sonobuoys, associated receivers, and recorders of USW systems. Questions will be of a general nature or specific to a certain system. You also will be questioned on theory of operation, operating parameters, and location of modules and subassemblies of USW systems.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Perform voltage, current, and resistance measurements
Knowledge you should have to perform this skill:	• Theory of matter, energy, magnetism, and electricity • Circuit control and protection devices • Interpretation of charts, diagrams, and schematics
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapters 1, 7, and Appendix II (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 1, Chapters 1 and 3 (NAVEDTRA 14173) • Navy Electricity and Electronics Training Series, Module 2, Chapters 1 through 5 (NAVEDTRA 14174) • Navy Electricity and Electronics Training Series, Module 3, Chapters 1 through 6 (NAVEDTRA 14175) • Navy Electricity and Electronics Training Series, Module 4, Chapters 1 through 3 (NAVEDTRA 14176) • Navy Electricity and Electronics Training Series, Module 16, Chapters 1 through 6 (NAVEDTRA 14188) • Navy Electricity and Electronics Training Series, Module 19, Chapter 1 (NAVEDTRA 14191) • Navy Electricity and Electronics Training Series, Module 20, Chapters 1 through 5 (NAVEDTRA 14192)

Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the theory of matter, energy, magnetism, and electricity. Questions will be of a general nature or specific to a certain of type of circuit. You also will be questioned on circuit control and protection devices, interpreting charts, diagrams, schematics, and the electronic component color-coding system.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Isolate fault to a defective component
Knowledge you should have to perform this skill:	• Theory of operation of solid state devices, semiconductors, integrated circuits, and discrete components • Appropriate test methods and practices • Use of applicable test equipment
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Navy Electricity and Electronics Training Series, Module 6, Chapters 1 through 3 (NAVEDTRA 14178) • Navy Electricity and Electronics Training Series, Module 7, Chapters 1 through 4 (NAVEDTRA 14179) • Navy Electricity and Electronics Training Series, Module 8, Chapters 1 through 3 (NAVEDTRA 14180) • Navy Electricity and Electronics Training Series, Module 14, Chapter 1 (NAVEDTRA 14186) • Navy Electricity and Electronics Training Series, Module 16, Chapters 1, 2, 4, and 5 (NAVEDTRA 14188) • Navy Electricity and Electronics Training Series, Module 21, Chapters 1 and 2 (NAVEDTRA 14193)

Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about theory of operation of solid state devices, semiconductors, integrated circuits, and discrete components. Questions will be of a general nature or specific to a certain operating characteristic. You also will be questioned on testing methods and practices while using test equipment to isolate to a defective component.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Comply with electrostatic discharge sensitive (ESDS) program
Knowledge you should have to perform this skill:	• Identification of ESDS devices • Procedures for maintaining ESDS safe areas • Procedures for the handling and testing of ESDS devices • Procedures for packaging and labeling of ESDS devices
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 6 (NAVEDTRA 14028) • Aviation Maintenance Ratings, Chapter 5 (NAVEDTRA 12017) • Avionic Cleaning and Corrosion Prevention/Control, Chapter 9 (NAVAIR 16-1-540) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapter 22 (OPNAVINST 4790.2) • Navy Electricity and Electronics Training Series, Module 14, Chapter 3 (NAVEDTRA 14186) • Navy Electricity and Electronics Training Series, Module 21, Chapter 2 (NAVEDTRA 14193) • Standard Maintenance Practices Miniature/Microminiature (2M) Electronics Assembly Repair, Work Package 005 (NAVAIR 01-1A-23)

Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the ESDS program. Questions will be of a general nature or specific to a certain procedure involved in the ESDS program. In addition, you will be questioned on handling and testing of ESDS devices and the precautions when packaging and labeling these devices.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Perform waveform analysis
Knowledge you should have to perform this skill:	• Interpretation of waveforms • Identification of waveform generating circuits • Identification of causes of abnormal waveforms
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 8 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 9, Topics/Chapters 1 through 4 (NAVEDTRA 14181) • Navy Electricity and Electronics Training Series, Module 21, Chapter 5 (NAVEDTRA 14193)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on performing waveform analysis. Questions will be of a general nature or specific to a certain type of waveform generating circuit. You also will be questioned on identifying a variety of wave generating and wave shaping circuits. In addition, you will be questioned on phase, time, frequency, amplitude, and harmonics of observed waveforms.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Comply with the miniature/microminiature (2M) repair program
Knowledge you should have to perform this skill:	• Techniques of soldering • Procedures for de-soldering and re-soldering discrete components • Techniques used in fabricating, repairing, and maintaining electrical cables and connectors
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapters 6 and 7 (NAVEDTRA 14028) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapter 23 (OPNAVINST 4790.2) • Installation Practices Aircraft Electric and Electronic Wiring, Work Packages 003 through 027 (NAVAIR 01-1A-505) • Navy Electricity and Electronics Training Series, Module 14, Chapters 1 through 3 (NAVEDTRA 14186) • Standard Maintenance Practices Miniature/Microminiature (2M) Electronics Assembly Repair, Work Packages 006, 007, and 010 (NAVAIR 01-1A-23)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on soldering techniques. Questions will be of a general nature. You also will be questioned on techniques used in fabricating, repairing, and maintaining electrical cables and connectors.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Comply with the corrosion prevention and control program
Knowledge you should have to perform this skill:	• Theory of corrosion • Identification of types of corrosion • Corrosion prevention and treatment procedures
References you should study to gain the knowledge you need to perform this skill:	• Aircraft Weapons System Cleaning and Corrosion Control, Chapters 1 through 9 and Appendixes A and B, (NAVAIR 01-1A-509) • Applicable maintenance instruction manuals (MIMs) • Aviation Maintenance Ratings, Chapter 4 (NAVEDTRA 12017) • Avionic Cleaning and Corrosion Prevention/Control, Chapters 1 through 10 and Appendixes A and B (NAVAIR 16-1-540) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapter 14 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the corrosion prevention and control program. Questions will be of a general nature. You also will be questioned on the theory of corrosion, identification, types, prevention, and treatment.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain electronic magnetic interference (EMI) components
Knowledge you should have to perform this skill:	• Identification of EMI sources and their effects on electronic circuits • EMI shielding principles and practices • Effects of corrosion on EMI components • Procedures for maintaining EMI components
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 6 (NAVEDTRA 14028) • Avionic Cleaning and Corrosion Prevention/ Control, Chapter 8 (NAVAIR 16-1-540) • Navy Electricity and Electronics Training Series, Module 10, Chapter 2 (NAVEDTRA 14182) • Navy Electricity and Electronics Training Series, Module 17, Chapter 3 (NAVEDTRA 14189)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about EMI sources and its effect on avionics equipment. Questions will be of a general nature. You also will be questioned on principles and practices, corrosion control treatment, and maintenance of EMI components.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Maintain antennas and waveguides
Knowledge you should have to perform this skill:	• Theory of operation of antennas and waveguides • Operating parameters of antennas and waveguides
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Navy Electricity and Electronics Training Series, Module 10, Chapters 1 through 4 (NAVEDTRA 14182) • Navy Electricity and Electronics Training Series, Module 11, Chapters 1 through 3 (NAVEDTRA 14183) • Navy Electricity and Electronics Training Series, Module 18, Chapter 3 (NAVEDTRA 14190)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of antennas and waveguides. Questions will be of a general nature or specific to a certain configuration. You also will be questioned on the theory of operation and operating parameters of antennas and waveguides.

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General ATI *Skill Area*	**Test Equipment**
A *skill* you are expected to perform from the General Skill Area above:	Maintain test equipment
Knowledge you should have to perform this skill:	• Operating parameters and use of test equipment and automatic test equipment (ATE) • Procedures for repairing test equipment • Identification of different types of calibration labels • Identification of general Metrology Automated System for Uniform Recall and Reporting (MEASURE) formats
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Metrology Automated System for Uniform Recall and Reporting (MEASURE) Users Manual, Appendix J (OPNAV Manual OP43P6) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapter 19 (OPNAVINST 4790.2) • Navy Electricity and Electronics Training Series, Module 16, Chapters 1 through 6 (NAVEDTRA 14188) • Navy Electricity and Electronics Training Series, Module 21, Chapters 1 through 5 (NAVEDTRA 14193)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of test equipment and ATE. Questions will be of a general nature or specific to a certain type of test equipment. You also will be questioned on the use and repair of test equipment. In addition, you can expect questions on meter movements, calibration labels, and applicable MEASURE formats.

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General ATI *Skill Area*	**Quality Assurance**
A *skill* you are expected to perform from the General Skill Area above:	Comply with foreign object damage and tool control programs
Knowledge you should have to perform this skill:	• Purpose and scope of foreign object damage and tool control programs
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapter 5 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapters 12 and13 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the purpose and scope of the foreign object damage and tool control programs. Questions will be of a general nature. You also will be questioned on tool control inventories, identification markings, inspecting tool containers, and on searching for missing tools. In addition, you will be questioned on the procedures for preparing missing and broken tool reports.

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General ATI *Skill Area*	**Automated Information Operations**
A *skill* you are expected to perform from the General Skill Area above:	Maintain computer systems
Knowledge you should have to perform this skill:	• Theory of operation of computer systems • Operating parameters of computers • Classification of computers • Uses of computers • Interpreting computer languages • Location of hardware • Storage methods • Programming and troubleshooting techniques
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 3, Chapter 4 (NAVEDTRA 14028) • Navy Electricity and Electronics Training Series, Module 13, Chapters 1 through 3 (NAVEDTRA 14185) • Navy Electricity and Electronics Training Series, Module 22, Chapters 1 through 4 (NAVEDTRA 14194)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the maintenance of computer systems. Questions will be of a general nature or specific to a certain type of computer system. You also will be questioned on the theory of operation, classes of computers, and uses of computers. In addition, you will be questioned on computer languages, programming, hardware, storage methods, number systems, and troubleshooting digital logic circuits.

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General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Maintain hazardous material (HAZMAT)
Knowledge you should have to perform this skill:	• Contents of the Hazardous Material Users Guide (HMUG) • Procedures for handling and storage of HAZMAT • Requirements for labeling HAZMAT • Inspection requirements for HAZMAT • Disposal procedures for HAZMAT • Use and contents of Material Safety Data Sheets (MSDS)
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapter 20 (OPNAVINST 4790.2) • Hazardous Material Users Guide (HMUG), Groups 1 through 7, 9, 11, and 12 • Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat, Volume I, Chapter B3 (OPNAVINST 5100.19) • Navy Occupational Safety and Health Program Manual, Chapter 7 (OPNAVINST 5100.23)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the HAZMAT program. Questions will be of a general nature. You also will be questioned about the use, storage, disposal, labeling, and inspection requirements of HAZMAT. In addition, you will be questioned on the use and contents of the HMUG.

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General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Initiate a maintenance action form (MAF) by using Naval Aviation Logistics Command Management Information System (NALCOMIS)
Knowledge you should have to perform this skill:	• Procedures for using technical manuals, illustrated parts breakdowns (IPBs), supply catalogs, and other documentation to identify parts and assemblies • Definitions of MAF data elements • Packaging requirements for turn-in/storage of parts • Tool control documentation
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Maintenance Ratings, Chapters 1 through 3 (NAVEDTRA 12017) • Naval Air Systems Command Technical Manual Program, Work Packages 5, 9 through 11 (NAVAIR 00-25-100) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapters 12 and 18 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume III, Chapters 8 and 9 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapter 13 (OPNAVINST 4790.2)

Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on initiating a maintenance action form by using NALCOMIS. Questions will be of a general nature or specific to certain kind of maintenance action. You also will be questioned on material identification to include: part numbers, SM&R codes, national stock numbers, and the use of technical manuals. In addition, you also will be questioned on packaging requirements for turn-in of parts to supply and proper tool control documentation.

Part 2

Advancement Handbook for ATI2

Advancement Handbook for ATI2

General ATI *Skill Area*	**Avionics Systems Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Monitor installation of avionics field changes/modifications to avionic systems
Knowledge you should have to perform this skill:	• Technical directive program • Documentation of changes/modifications
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapter 7 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapter 10 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapters 8 and 11 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the technical directive program. Questions will be of a general nature. You also will be questioned on compliance and documentation procedures.

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General ATI *Skill Area*	**Electrical and Electronic Maintenance**
A *skill* you are expected to perform from the General Skill Area above:	Monitor electronic corrosion control program
Knowledge you should have to perform this skill:	• Theory of electronic corrosion • Identification/recognition of types of electronic corrosion • Corrosion prevention and treatment procedures • Emergency procedures • Auditing procedures
References you should study to gain the knowledge you need to perform this skill:	• Aircraft Weapons System Cleaning and Corrosion Control, Chapters 1 through 9 and Appendixes A and B (NAVAIR 01-1A-509) • Applicable maintenance instruction manuals (MIMs) • Aviation Maintenance Ratings, Chapter 4 (NAVEDTRA 12017) • Avionic Cleaning and Corrosion Prevention/Control, Chapters 1 through 10 and Appendixes A & B (NAVAIR 16-1-540) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapter 14 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapters 8 and 14 (OPNAVINST 4790.2)

Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the electronic corrosion control program. Questions will be of a general nature or specific to a certain procedure. You also will be questioned on the theory of corrosion, preventative maintenance, and corrosion removal and treatment. In addition, you will be questioned on emergency reclamation procedures and requirements for monitoring the electronic corrosion control program.

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General ATI *Skill Area*	**Test Equipment**
A *skill* you are expected to perform from the General Skill Area above:	Monitor test equipment calibration program
Knowledge you should have to perform this skill:	• Identification of Metrology Automated System for Uniform Recall and Reporting (MEASURE) formats • Operating parameters and use of test equipment and automatic test equipment (ATE) • Procedures for calibrating test equipment • Procedures for repairing test equipment • Auditing procedures
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Electronics Technician 2 (Intermediate), Chapters 1 through 11, (NAVEDTRA 12334) • Metrology Automated System for Uniform Recall and Reporting (MEASURE) Users Manual, Appendix J (OPNAV Manual OP43P6) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapters 8 and 19 (OPNAVINST 4790.2) • Navy Electricity and Electronics Training Series, Module 16, Chapters 1 through 6 (NAVEDTRA 14188) • Navy Electricity and Electronics Training Series, Module 21, Chapters 1 through 5 (NAVEDTRA 14193)

Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the monitoring of test equipment program. Questions will be of a general nature or specific to a certain policy. You also will be questioned on the use, calibration, and repair of test equipment. In addition, you can expect questions on applicable MEASURE formats as well as questions on procedures and requirements for evaluating the test equipment calibration program.

Advancement Handbook for ATI2

General ATI *Skill Area*	**Quality Assurance**
A *skill* you are expected to perform from the General Skill Area above:	Prepare special reports
Knowledge you should have to perform this skill:	• Requirements for preparing special reports under the Naval Aviation Maintenance Discrepancy Reporting Program (NAMDRP)
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapter 6 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapter 10 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on NAMDRP reports. Questions will be of a general nature or specific to certain reporting procedures.

Advancement Handbook for ATI2

General ATI *Skill Area*	**Quality Assurance**
A *skill* you are expected to perform from the General Skill Area above:	Perform collateral duty inspections (CDI)
Knowledge you should have to perform this skill:	• CDI certification process • Procedures for receiving/screening inspections • Procedures for performing in-process inspections • Procedures for performing final inspections
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Applicable maintenance requirement cards (MRCs) • Aviation Maintenance Ratings, Chapter 6 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapter 14 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on performing collateral duty inspections. Questions will be of a general nature or specific to a certain type of inspection. You also will be questioned on the CDI nomination/certification process, and the issue/control of QA stamps.

Advancement Handbook for ATI2

General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Perform awaiting parts (AWP) validations
Knowledge you should have to perform this skill:	• Purpose of AWP validations • Frequency of AWP validations
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapter 7 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapters 12 and 18 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on performing AWP validations. Questions will be of a general nature or specific to a certain procedure.

Advancement Handbook for ATI2

General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Review individual component repair list (ICRL)
Knowledge you should have to perform this skill:	• Purpose and scope of ICRL • Procedures for reviewing ICRL • Procedures for updating ICRL • Identification of SM&R and ICRL capability codes
References you should study to gain the knowledge you need to perform this skill:	• Applicable maintenance instruction manuals (MIMs) • Aviation Maintenance Ratings, Chapter 3 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapter 18 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapter 21 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on reviewing the ICRL. Questions will be of a general nature or specific to a certain procedure. You also will be questioned on the purpose, updating procedures, SM&R codes, and ICRL capability codes.

Advancement Handbook for ATI2

General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Review maintenance data systems (MDS) reports
Knowledge you should have to perform this skill:	• Procedures for reviewing MDS reports • Contents of all Maintenance Data Reports (MDRs)
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapter 1 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume III, Chapter 3 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on reviewing MDS reports. Questions will be of a general nature or specific to a certain procedure. You also will be questioned about the contents of these reports and their use.

Advancement Handbook for ATI2

General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Perform dispersed technical publications library (DTPL) functions
Knowledge you should have to perform this skill:	• Procedures for maintaining a DTPL • Qualifying factors for outfitting a DTPL • Stamp requirements • Change Entry Certification Record (CECR) usage • Incorporation of changes to manuals • Technical manual number system
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapter 2, (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapter 14 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapters 8 and 10 (OPNAVINST 4790.2) • Naval Air Systems Command Technical Manual Program, Work Packages 005 00, 007 00, 010 00, 014 00, 015 00, 019 00, and 022 00 (NAVAIR 00-25-100)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on DTPL functions. Questions will be of a general nature or specific to a certain requirement. You also will be questioned on initial outfitting of a DTPL, central technical publications library stamp requirements, and the utilization of the change entry certification record (CECR). In addition, you will be asked questions about incorporating changes to technical manuals, and the technical manual identification system.

Part 3

Advancement Handbook for ATI1

Advancement Handbook for ATI1

General ATI *Skill Area*	**Quality Assurance**
A *skill* you are expected to perform from the General Skill Area above:	Perform quality assurance representative (QAR) functions
Knowledge you should have to perform this skill:	- Concepts of quality assurance (QA) - The QAR qualification process - Procedures for reviewing personnel nominated for Collateral Duty Inspector (CDI), Collateral Duty Quality Assurance Representative (CDQAR), and Quality Assurance Representative (QAR) - Concepts of the Naval Air Maintenance Discrepancy Reports (NAMDRP) program - Procedures for conducting final inspections - Identification of discrepancy trends - Procedures for performing QA audits
References you should study to gain the knowledge you need to perform this skill:	- Applicable maintenance instruction manuals (MIMs) - Applicable maintenance requirement cards (MRCs) - Aviation Maintenance Ratings, Chapter 6 (NAVEDTRA 12017) - Naval Aviation Maintenance Program (NAMP), Volume I, Chapter 14 (OPNAVINST 4790.2) - Naval Aviation Maintenance Program (NAMP), Volume V, Chapters 8 and 10 (OPNAVINST 4790.2)

Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the responsibilities of a QAR. Questions will be of a general nature or specific to a certain task. You also will be questioned on the concepts of the QA program, the CDI, CDQAR, and QAR qualification process, and proper NAMDRP reporting procedures. In addition, you will be questioned on conducting inspections, audits, and analyzing discrepancy trends.

Advancement Handbook for ATI1

General ATI *Skill Area*	**Quality Assurance**
A *skill* you are expected to perform from the General Skill Area above:	Monitor safety program
Knowledge you should have to perform this skill:	• Purpose and scope of the safety program • Identification of instructions for shore and afloat activities • Procedures for reporting safety hazards, mishaps, and unsafe practices within the department • Requirements for safety meetings • Auditing procedures for safety programs
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapters 2 and 5 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapters 14, 15, and16 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on monitoring of the safety program. Questions will be of a general nature or specific to a certain procedure. You also will be questioned on the different instructions used for reporting and investigating hazards ashore and afloat. In addition, you will be questioned on the requirements for safety meetings, and auditing procedures for the program.

Advancement Handbook for ATI1

General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Monitor individual material readiness list (IMRL)
Knowledge you should have to perform this skill:	• Purpose and scope of the IMRL • Identification of major sections of the IMRL • Procedures and requirements for updating the IMRL • Tailoring procedures for IMRL items • Inventory requirements • Auditing procedures
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapter 3 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapter 10 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapters 8 and 10 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on monitoring the IMRL program. Questions will be of a general nature or specific to a certain procedure. You also will be questioned on the five major sections of the IMRL and their purposes. In addition, you will be questioned on the types of transactions, tailoring requirements, inventorying procedures, the surveying of items, and auditing procedures.

Advancement Handbook for ATI1

General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Monitor the tool control program (TCP)
Knowledge you should have to perform this skill:	• Purpose of the TCP • Numbering/etching of tools and containers • Silhouetting of tools • Tool box inventory list requirements • Daily requirements of tool inventories • Missing, broken, and worn tool procedures • Auditing procedures
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, Chapter 5 (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, Chapter 10 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, Chapters 8 and 13 (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the TCP. Questions will be of a general nature or specific to a certain requirement. You also will be questioned on the purpose of the TCP, numbering and etching of tools and containers, and the silhouetting of tools. In addition, you will be asked questions on tool inventory lists, inventory requirements, missing, broken, and worn tool reporting procedures, and auditing the TCP.

Part 4

Advancement Handbook for ATIC

Advancement Handbook for ATIC

General ATI *Skill Area*	**Quality Assurance**
A *skill* you are expected to perform from the General Skill Area above:	Carry out Quality Assurance (QA) functions
Knowledge you should have to perform this skill:	• QA program requirements • Procedures for submission and review of Quality Deficiency Reports (QDRs), Engineering Investigations (EIs), Hazardous Material Reports (HMRs), and Technical Publication Deficiency Reports (TPDRs) • Naval aviation standard operating procedures • Procedures for investigating Support Equipment (SE) Misuse and Abuse reports
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, all chapters (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, all chapters, (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume III, all chapters, (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, all chapters, (OPNAVINST 4790.2)
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on evaluating the QA program. Questions will be of a general nature or specific to a certain requirement. You also will be questioned on all of the programs encompassed by the Naval Air Maintenance Program (NAMP).

Advancement Handbook for ATIC

General ATI *Skill Area*	**Logistics/Technical Administration**
A *skill* you are expected to perform from the General Skill Area above:	Carry out production control operations
Knowledge you should have to perform this skill:	• Responsibilities of production control and the production divisions • Intermediate Level Maintenance Data Systems functions and documentation • Assignment of workload priorities • Assignment of supply project and priority codes • Operating procedures of the Aeronautical Material Screening Unit (AMSU) • Coordinating awaiting parts (AWP) validation with the Supply Department • Procedures for the screening of logs and records • Procedures for reviewing Equipment Discrepancy Reports, DIFM Status Reports, SQD EXREP Status Reports, Subsystem Capability Impact Reports (SCIR), and Periodic Maintenance Information Cards (PMIC)
References you should study to gain the knowledge you need to perform this skill:	• Aviation Maintenance Ratings, all chapters (NAVEDTRA 12017) • Naval Aviation Maintenance Program (NAMP), Volume I, all chapters, (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume III, all chapters, (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP), Volume V, all chapters, (OPNAVINST 4790.2)

Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on production control (PC) operations. Questions will be of a general nature or specific to a certain procedure. You also will be questioned on documentation requirements, equipment status reports, operating procedures of AMSU, and assigning work load and supply priority codes. In addition, you will be questioned on AWP requirements, the screening of logs and records, and the procedures for review of computer based management information equipment status reports.

Appendix A

References Used in This Advancement Handbook

Rating	Short Title	Long Title	Chapters/ Paragraphs	Stocking Point
ATI3	HMUG	Hazardous Materials Users Guide	Introduction Groups 1 through 7 and 9, 11, and 12	Note 6
	NAVAIR 00-25-100	Naval Air Systems Command Technical Manual Program	Work Packages 005, 009, and 011	Note 1
	NAVAIR 01-1A-23	Standard Maintenance Practices Miniature/ Microminiature (2M) Electronics Assembly Repair	Work Packages 005, 006, 007 and 010	Note 1
	NAVAIR 01-1A-505	Installation Practices Aircraft Electric and Electronic Wiring	Work Packages 003 through 027	Note 1
	NAVAIR 01-1A-509	Aircraft Weapons Systems Cleaning and Corrosion Control	Chapters 1 through 9 and Appendixes A and B	Note 1
	NAVAIR 16-1-540	Avionic Cleaning and Corrosion and Corrosion/Prevention	Chapters 1 through 10 and Appendixes A and B	Note 1
	NAVEDTRA 12017	Aviation Maintenance Ratings	Chapters 1 through 5	Note 3
	NAVEDTRA 14028	Aviation Electronics Technician 3	Chapters 1 through 8 and Appendix II	Note 3
	NAVEDTRA 14173	Navy Electricity and Electronics Training Series, Module 1	Chapters 1 and 3	Note 3

Rating	Short Title	Long Title	Chapters/ Paragraphs	Stocking Point
	NAVEDTRA 14174	Navy Electricity and Electronics Training Series, Module 2	Chapters 1 through 5	Note 3
	NAVEDTRA 14175	Navy Electricity and Electronics Training Series, Module 3	Chapters 1 through 6	Note 3
	NAVEDTRA 14176	Navy Electricity and Electronics Training Series, Module 4	Chapters 1 through 3	Note 3
	NAVEDTRA 14178	Navy Electricity and Electronics Training Series, Module 6	Chapters 1 through 3	Note 3
	NAVEDTRA 14179	Navy Electricity and Electronics Training Series, Module 7	Chapters 1 through 4	Note 3
	NAVEDTRA 14180	Navy Electricity and Electronics Training Series, Module 8	Chapters 1 through 3	Note 3
	NAVEDTRA 14181	Navy Electricity and Electronics Training Series, Module 9	Chapters 1 through 4	Note 3
	NAVEDTRA 14182	Navy Electricity and Electronics Training Series, Module 10	Chapters 1 through 4	Note 3
	NAVEDTRA 14183	Navy Electricity and Electronics Training Series, Module 11	Chapters 1 through 3	Note 3
	NAVEDTRA 14184	Navy Electricity and Electronics Training Series, Module 12	Chapters 1 through 3	Note 3
	NAVEDTRA 14185	Navy Electricity and Electronics Training Series, Module 13	Chapters 1 through 3	Note 3
	NAVEDTRA 14186	Navy Electricity and Electronics Training Series, Module 14	Chapters 1 through 3	Note 3
	NAVEDTRA 14187	Navy Electricity and Electronics Training Series, Module 15	Chapters 1 through 4	Note 3
	NAVEDTRA 14188	Navy Electricity and Electronics Training Series, Module 16	Chapters 1 through 6	Note 3

Rating	Short Title	Long Title	Chapters/ Paragraphs	Stocking Point
	NAVEDTRA 14189	Navy Electricity and Electronics Training Series, Module 17	Chapters 1 through 3, 5	Note 3
	NAVEDTRA 14190	Navy Electricity and Electronics Training Series, Module 18	Chapters 1 through 4	Note 3
	NAVEDTRA 14191	Navy Electricity and Electronics Training Series, Module 19	Chapter 1	Note 3
	NAVEDTRA 14192	Navy Electricity and Electronics Training Series, Module 20	Chapters 1 through 5	Note 3
	NAVEDTRA 14193	Navy Electricity and Electronics Training Series, Module 21	Chapters 1 through 5	Note 3
	NAVEDTRA 14194	Navy Electricity and Electronics Training Series, Module 22	Chapters 1 through 4	Note 3
	NAVEDTRA 14195	Navy Electricity and Electronics Training Series, Module 23	Chapters 1 through 8	Note 3
	NAVEDTRA 14196	Navy Electricity and Electronics Training Series, Module 24	Chapters 1 through 3	Note 3
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume I	Chapters 12 and 18	Note 4
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume III	Chapters 8 and 9	Note 4
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume V	Chapters 12 through 14, 19, 20, 22 and 23	Note 4
	OPNAVINST 5100.19	Naval Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat Volume I	Chapter B3	Note 2
	OPNAVINST 5100.23	Naval Occupational Safety and Health Program Manual	Chapter 7	Note 2

Rating	Short Title	Long Title	Chapters/ Paragraphs	Stocking Point
	OPNAV Manual OP43P6	Metrology Automated System for Uniform Recall and Reporting (MEASURE) Users Manual	Appendix J	Note 5
ATI2	NAVAIR 00-25-100	Naval Air Systems Command Technical Manual Program	Work Packages 005, 007, 010, 014, 015, 019, and 022	Note 1
	NAVAIR 01-1A-509	Aircraft Weapons Systems Cleaning and Corrosion Control	Chapters 1 through 9 and Appendixes A and B	Note 1
	NAVAIR 16-1-540	Avionic Cleaning and Corrosion and Corrosion/Prevention	Chapters 1 through 10 and Appendixes A and B	Note 1
	NAVEDTRA 12017	Aviation Maintenance Ratings	Chapters 1 through 4, 6, and 7	Note 3
	NAVEDTRA 12334	Aviation Electronics Technician 2 (Intermediate)	All Chapters	Note 3
	NAVEDTRA 14188	Navy Electricity and Electronics Training Series, Module 16	Chapters 1 through 6	Note 3
	NAVEDTRA 14193	Navy Electricity and Electronics Training Series, Module 21	Chapters 1 through 5	Note 3
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume I	Chapters 10, 12, 14, and 18	Note 4
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume III	Chapter 3	Note 4
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume V	Chapters 8, 10 through 12, 14, 18, 19, and 21	Note 4

Rating	Short Title	Long Title	Chapters/ Paragraphs	Stocking Point
	OPNAV Manual OP43P6	Metrology Automated System for Uniform Recall and Reporting (MEASURE) Users Manual	Appendix J	Note 5
ATI1	NAVEDTRA 12017	Aviation Maintenance Ratings	Chapters 2, 3, 5 and 6	Note 3
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume I	Chapters 10, and 14 through 16	Note 4
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume V	Chapters 8, 10 and 13	Note 4
ATIC	NAVEDTRA 12017	Aviation Maintenance Ratings	All Chapters	Note 3
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume I	All Chapters	Note 4
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume III	All Chapters	Note 4
	OPNAVINST 4790.2	Naval Aviation Maintenance Program, Volume V	All Chapters	Note 4

LEGEND:

Note 1 - INTERNET - http://www.natec.navy.mil/ or Central Technical Publications Library.

Note 2 - INTERNET - http://neds.nebt.daps.mil/ or Central Technical Publications Library.

Note 3 - INTERNET - http://www.advancement.cnet.navy.mil/

> Note: This is not a new or revised course. NAVEDTRA Course Number changed only to facilitate central enrollment.

Note 4 - INTERNET - http://greenshirt.nalda.navy.mil/ or Central Technical Publications Library

Note 5 - Central Technical Publications Library or local calibration facility.

Note 6 - HMC&M/HMIS CD-ROM
        Letter request to:
        Commanding Officer
        ATTN: CD-ROM Team, Code N9113
        NCTAMSLANT
        9456 Fourth Avenue, Suite 215A
        Norfolk, VA 23511-2199
        Commercial: (804) 445-9192
        DSN: 565-9192